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A real-time procedural shading system for programmable graphics hardware

Kekoa Proudfoot, William R. Mark, Svetoslav Tzvetkov, Pat Hanrahan

August 2001 Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(1.20 MB)

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Real-time graphics hardware is becoming programmable, but this programmable hardware is complex and difficult to use given current APIs. Higher-level abstractions would both increase programmer productivity and make programs more portable. However, it is challenging to raise the abstraction level while still providing high performance. We have developed a real-time procedural shading language system designed to achieve this goal.

Our system is organized around multiple computation ...

Keywords: graphics hardware, graphics systems, rendering, shading languages

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August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques

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Keywords: animation, computer-aided design, image rendering, lighting, motion synthesis, particle systems, physical modeling, visualization, volume rendering

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